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GUIDED MISSILE AND ASTROPHYSICS INTELLIGENCE COMMITTEE

1 February 1963

MEMORANDUM FOR: Holders of GMAIC-Deployment Working Group Report,
Soviet Surface-to-Surface Missile Deployment
(Control No. [redacted] dated 1 January 1962

SUBJECT: Listings of GMAIC Evaluations on Soviet Surface-to-Surface Missile Deployment Locations (Fifth Revision)

1. This memorandum and the attached tables supersede those published on 1 December 1962 and disseminated under control number [redacted] (Fourth Revision). The report dated 1 December 1962 should be destroyed in accordance with the existing instructions for handling [redacted] material.

2. [redacted] revealed continued construction activity at a few of the seventeen confirmed ICBM complexes and newly identified sites have been observed under construction at Kostroma and Novosibirsk.

3. In the report dated 1 December 1962, ICBM site configurations were categorized to reflect the major differences in site signature. In review, ICBM site configurations are as follows:

TYPE I - First generation soft site with a single rail-served pad similar to Launch Complex A or B, Tyura Tam. To date, this type has only been observed at Plesetsk.

TYPE II- Second generation soft site with two road-served pads similar to Launch Complex C, Tyura Tam. This type was first observed at Yurya and subsequently at 11 other locations. There are two basic configurations of this type.

TYPE III-A hardened ICBM launch site observed at Launch Complex D, Tyura Tam and eight confirmed ICBM complexes. Each site consists of two launchers (probably silo type) and a control bunker. The degree of hardening cannot be determined from available evidence. The excavations during construction are about 200 feet wide and 500 feet long. An accurate measurement of depth has not been determined from photography.

1/ The USAF member of GMAIC believes that there are three configurations of this type. He asserts that the TYPE IV site described below is but another modification of the TYPE II site. The NSA member believes that all soft, road-served ICBM sites should be grouped as TYPE II until the missile system involved has been determined.

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DECLASS REVIEW by NIMA/DOD

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TYPE IV - A soft configuration consisting of two road-served launch pads. This configuration was first observed at TYUMEN and subsequently at three other confirmed ICBM complexes. It differs from TYPE II sites as follows: (1) the pad separation is between 800 and 870 feet instead of 980 feet; (2) the ready building is 820 feet from the pad and is smaller (115 x 130 feet); and (3) there is a "plus sign" pattern to the rear of the pad area at most of the sites under construction the function of which has not been determined.

Line drawings of the four ICBM site configurations described above have been included in the 1 October 1962 revision to the GMAIC-DWG Report, Soviet Surface-to-Surface Missile Deployment.

4. A total of 136 ICBM launchers have been identified to date at deployed complexes. Of this total, 80-90 are believed to be operational.

5. A total of 139 soft MRBM/IRBM sites (556 launch pads) have been identified on [redacted] This total includes one probable site at SMORGON and one possible site at LEBEDIN. Twenty-six hardened MRBM/IRBM sites (52 launchers) have been identified including two possible sites at SHESTOVO and one probable site at SARY OZEK.

6. While the vast majority of MRBM/IRBM sites are deployed in pairs, a few exceptions have been noted in our continuing analysis of deployment concepts. A few complexes have been observed with three soft sites, some with two soft sites plus one hardened site and there are still a few having only one soft site. Table 3 has been revised in this report to include coordinates, B.E. numbers, plus TDI names and to categorize the different MRBM/IRBM site configurations as follows:

TYPE I - MRBM sites consisting of four round, soft launch pads and support facilities.

TYPE II - MRBM sites consisting of four elongated, soft launch pads and support facilities.

TYPE III- IRBM sites consisting of four elongated, widely separated, soft launch pads and support facilities.

TYPE IV - Hardened MRBM/IRBM launch sites consisting of two silo-type launchers and support facilities.

Line drawing of two variations of the TYPE I sites and one of a typical TYPE IV site were included in the 1 October 1962 revision to the GMAIC-DWG Report, Soviet Surface-to-Surface Missile Deployment.

7. It should be noted that all suspect locations are subject to continuous review. When a suspect location has sufficient evidence to warrant an assessment of possible or higher, it will be included in the GMAIC-DWG Report, Soviet Surface-to-Surface Missile Deployment [redacted] dated 1 January 1962. When a location has been evaluated as negative, by the working group, all evidence including [redacted] photography will continue to be reviewed for deception, new construction, and unrecognized configurations. The evaluations assigned are

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based on the latest data and are subject to change as new evidence is made available. Accordingly, these listings will be revised periodically to reflect additions and changes in evaluations.

8. Although some of the locations listed in Table 4 may have some functional relationship to the Soviet missile program, the assessments are limited to launching facilities. Only major differences in assessment are indicated in footnotes on the bottom of the pages.

 25X1**Attachments:**

- TABLE 1. Summary of Evaluations of Construction Status
- TABLE 2. Summary Evaluations of ICBM Deployment Locations
- TABLE 3. Summary Evaluations of MRBM/IRBM Deployment Locations
- TABLE 4. Alphabetical Listing of Locations Considered in Detail

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SUMMARY OF ESTIMATED STATUS OF IDENTIFIED
ICBM AND MRBM/IRBM LAUNCHERS AT
DEPLOYED COMPLEXES

<u>ICBM</u>			
<u>TYPE</u>	<u>NUMBER</u>	<u>OPERATIONAL</u>	<u>UNDER CONSTRUCTION</u>
I	4	4	0
II	84	64	20
III	26	8	18
IV	<u>22</u>	<u>8</u>	<u>14</u>
TOTAL	136	84	52

<u>MRBM/IRBM</u>			
<u>TYPE</u>	<u>NUMBER</u>	<u>COMPLETE</u>	<u>UNDER CONSTRUCTION</u>
I	308	308	0
II	196	188	8
III	52	48	4
IV	<u>52</u>	<u>34</u>	<u>18</u>
TOTAL	608	578	30

NOTE: See TABLES 2 and 3 for details.

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SUMMARY EVALUATIONS OF CONFIRMED ICBM DEPLOYMENT LOCATIONS

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25X1 SITE STATUS
STAGE OF CONSTR.

LOCATION	NO. OF SITES OBSERVED TO DATE	NO. OF PADS/ LAUNCHERS	SITE	TYPE	ESTIMATED STATUS ON 2-1-63
1. DROVYANAYA	2	4	A	II (Mod. b)	Oper.
			B	Prob. III	U/C
2. GLADKAYA	2	4	A	IV	U/C
			B	IV	U/C
3. ITATKA	2	4	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
4. KOSTROMA	6	12	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	Oper.
			D	II (Mod. b)	Oper.
			E	III	U/C
			F	Prob. II (Mod. b)	U/C
5. KOZELSK	4	8	A	IV	Oper.
			B	IV	U/C
			C	IV	U/C
			D	IV	U/C

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LOCATION	NO. OF SITES OBSERVED TO DATE	NO. OF PADS/ LAUNCHERS	STAGE OF COMET		ESTIMATED STATUS ON 2-1-63
			SITE	TYPE	
6. NOVOBIRSK	4	8	A	II (Mod. b)	Oper.
			B	III	Oper.
			C	III	U/C
			D	II (Mod. b)	U/C
7. OMSK	2	4	A	III	U/C
			B	III	U/C
8. PERM	3	6	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	U/C
9. PLESETSK	8	14	I	I (2 pads)	Oper.
			II	I (1 pad)	Oper.
			III	I (1 pad)	Oper.
			A	II (Mod. a)	Oper.
			B	II (Mod. b)	Oper.
			C	III	Oper.
			D	IV	Oper.
			E	IV	Oper.
					Oper.
10. SHADRINSK	2	4	A	III	U/C
			B	III	U/C

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SITE STATUS

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ESTIMATED STATUS
ON 2-1-63

LOCATION	NO. OF SITES OBSERVED TO DATE	NO. OF PADS/ LAUNCHERS	SITE	TYPE	ESTIMATED STATUS
11. SVOBODNY	4	8	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	Oper.
			D	II (Mod. b)	U/C
12. TEYKOVO	4	8	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	U/C
			D	II (Mod. b)	U/C
13. TYUMEN	3	6	A	IV	Oper.
			B	IV	U/C
			C	IV	U/C
14. VERKHNYAYA SALDA	7	14	A	II (Mod. b)	Oper.
			B	II (Mod. a)	Oper.
			C	II (Mod. a)	Oper.
			D	II (Mod. b)	Oper.
			E	II (Mod. b)	Oper.
			F	III	Oper.
			G	III	U/C
15. YEDROVO	4	8	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	U/C
			D	II (Mod. b)	U/C

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LOCATION	NO. OF SITES OBSERVED TO DATE	NO. OF PADS/ LAUNCHERS	SITE	TYPE	ESTIMATED STATUS ON 2-1-67
16. YOSHEKAR-OLA	4	8	A	II (Mod. b)	Oper.
			B	II (Mod. b)	Oper.
			C	II (Mod. b)	Oper.
			D	II (Mod. b)	U/C
17. YURIA	8	16	A	II (Mod. a)	Oper.
			B	II (Mod. a)	Oper.
			C	II (Mod. b)	Oper.
			D	II (Mod. b)	Oper.
			E	III	Oper.
			F	II (Mod. b)	Oper.
			G	III	U/C
			H	Prob. II (Mod. b)	U/C
SUBTOTALS	69	136			
YURIA TAM	7	14	Complex A		
			Complex B		
			Complex C		
			Complex D		
			Complex E		
			Complex F		
			Complex G		
TOTALS	76	150			

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NOTE: No Type IV sites have been observed in a completed status or [] photography. Therefore, the DMG has used an average construction pace comparable to Type II sites in projecting its estimate of the status of these sites as []

Oper. = Operational
U/C = Under Construction

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LOCATION	COORDINATES	TYPE	LAUNCHERS	STATUS 2-1-63
AKHTYRKA Launch Complex				
Launch Site No. 1 (AKHTYRKA #1)	50-15-45N 34-50-15E	II	4	Complete
Launch Site No. 2 (AKHTYRKA #2)	50-22-00N 34-57-15E	II	4	Complete
ALUKSNE Launch Complex				
Launch Site No. 1 (LEJASCIEMS)	57-21-15N 26-44-45E	II	4	Complete
Launch Site No. 2 (RUSKI)	57-25-15N 26-50-00E	II	4	Complete
ANASTASYEVKA Launch Complex				
Launch Site No. 1 (ANASTASYEVKA #1)	48-35-00N 135-38-45E	II	4	Complete
Launch Site No. 2 (ANASTASYEVKA #2)	48-36-45N 135-41-30E	II	4	Complete
BALTA Launch Complex				
Launch Site No. 1 (BALTA #1)	48-01-45N 29-33-30E	II	4	Complete
Launch Site No. 2 (BALTA #2)	48-07-45N 29-34-30E	II	4	Complete
BARANO-ORENBURGSKOYE Complex				
Launch Site No. 1 (SOFIYE ALEKSEYEVSKOYE)	44-15-30N 131-23-00E	I	4	Complete
Launch Site No. 2 (BARANO-ORENBURGSKOYE)	44-19-45N 131-30-15E	I	4	Complete
BELOKOROVICHI Launch Complex				
Launch Site No. 1 (OLEVSK #1)	51-08-45N 28-03-30E	I	4	Complete
Launch Site No. 2 (OLEVSK #2)	51-10-30N 28-00-15E	I	4	Complete
Hard Launch Site (RUDNYA ZLOTINSKAYA)	51-04-30N 28-07-00E	IV	2	Complete

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<u>LOCATION</u>	<u>COORDINATES</u>	<u>2511</u>	<u>NO. OF PADS/</u> <u>LAUNCHERS</u>	<u>ESTIMATED CONSTR.</u> <u>STATUS 2-1-63</u>
BREST Launch Complex				
Launch Site No. 1 (BREST #1)	51-49-00N 24-01-00E	II	4	Complete
Launch Site No. 2 (BREST #2)	51-51-45N 24-01-45E	II	4	Complete
BRODY Launch Complex				
Launch Site No. 1 (BRODY #2)	50-13-15N 25-05-00E	I	4	Complete
Launch Site No. 2 (BERESTECHKO)	50-20-15N 25-05-30E	I	4	Complete
Hard Launch Site (BRODY #1)	50-06-00N 25-12-00E	IV	2	Complete
DERAZHNYA Launch Complex				
Launch Site No. 1 (DERAZHNYA #1)	49-21-00N 27-26-30E	II	4	Complete
Launch Site No. 2 (DERAZHNYA #2)	49-26-30N 27-29-00E	II	4	Complete
Hard Launch Site (KHMELNITSKIY)	49-24-45N 27-08-45E	IV	2	Complete
DISNA Launch Complex				
Launch Site No. 1 (DISNA)	55-35-15N 28-15-45E	I	4	Complete
Launch Site No. 2 (ZELKI)	55-36-00N 28-24-30E	I	4	Complete
Launch Site No. 3 (BORKOVICHI)	55-42-00N 28-27-15E	II	4	Complete
DOLINA Launch Complex				
Launch Site No. 1 (DOLINA #1)	49-04-00N 24-03-30E	I	4	Complete
Launch Site No. 2 (DOLINA #2)	49-06-15N 24-08-30E	I	4	Complete
Hard Launch Site (BOLEKHOV)	49-06-45N 23-51-15E	IV	2	Complete
DROGOBYCH Launch Complex				
Launch Site No. 1 (MEZENITSA)	49-22-00N 23-45-30E	I	4	Complete
Launch Site No. 2 (DROGOBYCH)	49-24-45N 23-34-45E	I	4	Complete
Hard Launch Site (STRYY)	49-16-30N 23-43-00E	IV	2	Complete

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LOCATION	COORDINATES	TYPE	NO. OF LAUNCHERS	ESTIMATED CONSTR. STATUS 2-1-63
DUNAYEVTSY Launch Complex (KAMENETS PODOL'SKIY)				
Launch Site No. 1 (KAMENETS PODOL'SKIY)	48-51-15N 26-42-30E	II	4	Complete
Launch Site No. 2 (DUNAYEVTSY)	48-55-15N 26-59-15E	II	4	Complete
DYATLOVO Launch Complex				
Launch Site No. 1 (DYATLOVO)	53-33-00N 25-16-30E	I	4	Complete
Launch Site No. 2 (ZBLYANY)	53-35-30N 25-17-45E	I	4	Complete
Launch Site No. 3 (BEREZOVKA)	53-36-15N 25-26-30E	II	4	Complete
GODYKHA Launch Complex (ZHITOMIR)				
Launch Site No. 1 (ZHITOMIR #1)	50-04-45N 28-16-15E	II	4	Late
Launch Site No. 2 (ZHITOMIR #2)	50-10-15N 28-16-00E	II	4	Complete
Launch Site No. 3 (BERDICHEV)	50-05-45N 28-22-45E	II	4	Late
GOMEL Launch Complex				
Launch Site No. 1 (BORKHOV #1)	52-18-45N 30-43-00E	II	4	Complete
Launch Site No. 2 (BORKHOV #2)	52-24-45N 30-38-30E	II	4	Complete
GRANOV Launch Complex				
Launch Site No. 1 (GRANOV #1)	48-56-15N 29-30-30E	III	4	Complete
Hard Launch Site (GRANOV #2)	48-49-30N 29-29-15E	IV	2	Complete
GRESK Launch Complex				
Launch Site No. 1 (GRESK #1)	53-14-50N 27-42-15E	I	4	Complete
Launch Site No. 2 (GRESK #2)	53-17-00N 27-41-15E	I	4	Complete
Launch Site No. 3 (URECH'YE)	53-11-30N 27-58-30E	II	4	Complete
GUSEV Launch Complex				
Launch Site No. 1 (GUSEV #1)	54-41-30N 22-05-15E	I	4	Complete
Launch Site No. 2 (GUSEV #2)	54-44-15N 22-04-15E	I	4	Complete

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LOCATION

GVARDEYSK Launch Complex

Launch Site No. 1 (GVARDEYSK #2)

JELGAVA Launch Complex

Launch Site No. 1 (IECAVA #1)

Launch Site No. 2 (IECAVA #2)

Hard Launch Site (IECAVA #3)

JONAVA Launch Complex

Launch Site No. 1 (KARIELAVA)

Launch Site No. 2 (JONAVA)

KIVERTSY Launch Complex

Launch Site No. 1 (KIVERTSY #1)

Launch Site No. 2 (KIVERTSY #2)

Launch Site No. 3 (KIVERTSY #3)

KOROSTEN Launch Complex

Launch Site No. 1 (KOROSTEN #1)

Launch Site No. 2 (KOROSTEN #2)

KOZHANOVICHI Launch Complex

Launch Site No. 1 (KOZHANOVICHI #1)

Launch Site No. 2 (KOZHANOVICHI #2)

KRASKINO Launch Complex

Launch Site No. 1 (KRASKINO)

KROLOVETS Launch Complex

Launch Site No. 1 (KROLOVETS #1)

Launch Site No. 2 (KROLOVETS #2)

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COORDINATES

TYPE

LAUNCHERS

54-45-15N 21-09-15E I 4

56-35-30N 24-03-45E II 4

56-39-45N 24-08-00E II 4

56-33-15N 24-20-30E IV 2

54-57-15N 24-06-00E II 4

55-01-00N 24-14-15E II 4

50-52-45N 25-30-45E I 4

50-57-00N 25-36-15E I 4

50-58-30N 25-39-15E II 4

50-51-45N 28-18-45E II 4

50-52-30N 28-30-30E II 4

52-10-30N 27-51-30E I 4

52-11-45N 27-48-30E I 4

42-44-00N 130-40-45E III 4

51-36-45N 33-28-45E III 4

51-40-45N 33-29-30E III 4

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LOCATION	COORDINATES	TYPE	LAUNCHERS	ESTIMATED CONSTR. STATUS 2-1-63
KURGANCHA Launch Complex				
Launch Site No. 1 (KURGANCHA #1)	39-37-15N 65-54-00E	I	4	Complete
Launch Site No. 2 (KURGANCHA #2)	39-37-30N 65-57-15E	I	4	Complete
Hard Launch Site (TYN)	39-35-15N 65-42-15E	IV	2	Complete
LEBEDIN Launch Complex				
Launch Site No. 1 (LEBEDIN #1)	50-33-00N 34-26-00E	III	4	Complete
Launch Site No. 2 (LEBEDIN #2)	50-35-45N 34-24-45E	III	4	Complete
Launch Site No. 3 (POSSIBLE)	50-38-00N 34-27-30E	III	4	Undetermined
LIDA Launch Complex				
Launch Site No. 1 (LIDA #1)	53-47-00N 25-21-30E	I	4	Complete
Launch Site No. 2 (LIDA #2)	53-57-00N 25-28-00E	I	4	Complete
LUTSK Launch Complex				
Launch Site No. 1 (LUTSK #1)	50-46-45N 25-04-15E	I	4	Complete
Launch Site No. 2 (LUTSK #2)	50-50-15N 25-03-00E	I	4	Complete
Hard Launch Site (VLADMIRVOLYNSKIY)	50-48-30N 24-42-30E	25X1	2	Complete
MARINA GORKA Launch Complex				
Launch Site No. 1 (MARINA GORKA)	53-26-30N 27-45-45E	II	4	Complete
MAYKOP Launch Complex				
Launch Site No. 1 (KURDZHIPS KAYA)	44-31-45N 40-00-45E	II	4	Complete
Hard Launch Site (SHIRVANS KAYA)	44-25-30N 39-54-00E	IV	2	Complete
MOLOSKOVITSY Launch Complex				
Launch Site No. 1 (MOLOSKOVITSY #1)	59-28-45N 29-06-00E	II	4	Complete
Launch Site No. 2 (MOLOSKOVITSY #2)	59-29-30N 29-12-30E	II	4	Complete
Hard Launch Site (GURELEVO)	59-25-30N 28-52-30E	IV	2	Late

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LOCATION	COORDINATES		TYPE	LAUNCHERS	ESTIMATED CONSTR. STATUS 2-1-63
MUKACHEVO Launch Complex					
Launch Site No. 1 (MUKACHEVO #1)	48-19-00N	22-31-00E	I	4	Complete
Launch Site No. 2 (MUKACHEVO #2)	48-19-30N	22-37-45E	I	4	Complete
NADVORNAYA Launch Complex					
Launch Site No. 1 (PARYSHCHE)	48-38-00N	24-42-00E	I	4	Complete
Launch Site No. 2 (NOVAVES)	48-39-30N	24-48-15E	I	4	Complete
Hard Launch Site (OTYNYA)	48-47-45N	24-50-15E	IV	2	Late
NIGRANDE Launch Complex					
Launch Site No. 1 (NIGRANDE)	56-31-00N	22-02-15E	III	4	Complete
Hard Launch Site (SKRUNDA)	56-35-45N	21-49-15E	IV	2	Early
NOVOSYSOYEVKA Launch Complex					
Launch Site No. 1 (NOVOSYSOYEVKA)	44-11-30N	133-26-00E	III	4	Complete
OSTROG Launch Complex					
Launch Site No. 1 (OSTROG #1)	50-14-30N	26-44-00E	I	4	Complete
Launch Site No. 2 (OSTROG #2)	50-17-15N	26-41-30E	I	4	Complete
OSTROV Launch Complex					
Launch Site No. 1 (ASANOVSHCHINA)	57-32-45N	28-12-00E	I	4	Complete
Launch Site No. 2 (SHEVELEVO)	57-37-30N	28-12-45E	I	4	Complete
Hard Launch Site (REDKINO)	57-24-30N	28-26-45E	IV	2	Late
PAPLAKA Launch Complex					
Launch Site No. 1 (PAPLAKA #1)	56-24-00N	21-15-30E	I	4	Complete
Launch Site No. 2 (PAPLAKA #2)	56-25-30N	21-15-30E	I	4	Complete

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LOCATION	COORDINATES	TYPE	NO. OF PADS	ESTIMATED CONSTR. STATUS 2-1-63
PERVOMAYSK Launch Complex				
Hard Launch Site No. 1 (KAMENYY MOST)	47-58-30N 30-53-00E	IV	2	Complete
Hard Launch Site No. 2 (SEHENOVKA)	47-58-45N 30-59-30E	IV	2	Late
PETRIKOV Launch Complex (KONKOVICHI)				
Launch Site No. 1 (PETRIKOV)	52-10-30N 28-24-30E	I	4	Complete
Launch Site No. 2 (KONKOVICHI)	52-15-30N 28-37-45E	I	4	Complete
PINSK Launch Complex				
Launch Site No. 1 (IVANOV)	52-10-45N 25-41-00E	I	4	Complete
Launch Site No. 2 (MOTOL)	52-12-45N 25-44-45E	I	4	Complete
POLOTSK Launch Complex				
Launch Site No. 1 (POLOTSK #1)	55-22-45N 28-44-00E	II	4	Complete
Launch Site No. 2 (POLOTSK #2)	55-24-15N 28-33-30E	II	4	Complete
POSTAVY Launch Complex				
Launch Site No. 1 (POSTAVY)	55-09-45N 26-54-15E	II	4	Complete
Launch Site No. 2 (KOZYANY)	55-20-30N 26-51-30E	II	4	Complete
PRUZHANY Launch Complex				
Launch Site No. 1 (PRUZHANY #1)	52-30-30N 24-08-15E	II	4	Complete
Launch Site No. 2 (PRUZHANY #2)	52-33-00N 24-07-00E	II	4	Complete
RAGNIT Launch Complex (KRASNOZHANSK)				
Launch Site No. 1 (VIESVILLE)	55-01-30N 22-23-00E	I	4	Complete
Launch Site No. 2 (RAGNIT)	55-01-30N 22-11-30E	I	4	Complete
RAKVERE Launch Complex				
Launch Site No. 1 (SIMUNA)	59-08-30N 26-26-30E	II	4	Complete
Launch Site No. 2 (VAIKE HAARJA)	59-11-30N 26-20-45E	II	4	Complete

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LOCATION	25X1		25X1		NO. OF PADS	ESTIMATED CONSTR. STATUS 2-1-63
	25X1	25X1	25X1	25X1		
RISTI Launch Complex						
Launch Site No. 1 (RISTI #1)	59-04-00N	24-03-15E	I	4	Complete	
Launch Site No. 2 (RISTI #2)	59-06-30N	24-06-30E	I	4	Complete	
ROZHDESTVENKA Launch Complex						
Launch Site No. 1 (ROZHDESTVENKA)	45-47-15N	133-43-15E	III	4	Complete	
RUZHANY Launch Complex						
Launch Site No. 1 (KRUPA #1)	52-48-15N	24-42-00E	II	4	Complete	
Launch Site No. 2 (KRUPA #2)	52-49-30N	24-45-30E	II	4	Complete	
SARY OZEK Launch Complex						
Launch Site No. 1	44-32-00N	77-46-45E	III	4	Complete	
Hard Launch Site (PROBABLE)	44-31-00N	77-58-45E	IV	2	Complete	
SATEIKIAI Launch Complex						
Launch Site No. 1 (SALANTAI #1)	55-59-45N	21-38-00E	I	4	Complete	
Launch Site No. 2 (SALANTAI #2)	56-02-15N	21-41-30E	I	4	Complete	
Hard Launch Site (ZEMAITIU KALVARIJA)	56-01-30N	21-53-30E	IV	2	Complete	
SHESTOVO Launch Complex						
Launch Site No. 1 (SHESTOVO #1)(POSSIBLE)	62-57-15N	40-13-00E	IV	2	Undetermined	
Launch Site No. 2 (SHESTOVO #2)(POSSIBLE)	62-58-00N	40-11-15E	IV	2	Undetermined	
SKALA PODOLSKAYA Launch Complex (BORSHCHEV)						
Launch Site No. 1 (SKALA PODOLSKAYA #1)	48-51-00N	26-08-30E	I	4	Complete	25X1
Launch Site No. 2 (SKALA PODOLSKAYA #2)	48-53-15N	26-03-30E	I	4	Complete	

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ESTIMATED CONSTR.
STATUS 2-1-63

LOCATION	COORDINATES	TYPE	NO. OF PADS/ LAUNCHERS	ESTIMATED CONSTR. STATUS 2-1-63
SLONIM Launch Complex				
Launch Site No. 1 (BYTEN #1)	52-52-30N 25-21-00E	I	4	Complete
Launch Site No. 2 (BYTEN #2)	52-55-30N 25-21-30E	I	4	Complete
SMORGON Launch Complex				
Launch Site No. 1 (SMORGON #1)	54-31-45N 26-17-30E	III	4	Complete
Launch Site No. 2 (SMORGON #3) (PROBABLE)	54-36-15N 26-23-15E	III	4	Complete
Hard Launch Site (SMORGON #2)	54-26-15N 26-18-15E	IV	2	Complete
SOKAL Launch Complex				
Launch Site No. 1 (SOKAL #1)	50-23-00N 24-18-30E	I	4	Complete
Launch Site No. 2 (SOKAL #2)	50-27-30N 24-20-45E	I	4	Complete
Hard Launch Site (SOKAL #3)	50-20-15N 24-26-00E	IV	2	Complete
SOVETSK Launch Complex				
Launch Site No. 1 (SLAVSK #1)	54-59-15N 21-37-15E	I	4	Complete
Launch Site No. 2 (SLAVSK #2)	55-00-00N 21-29-00E	I	4	Complete
SUCHAN Launch Complex				
Launch Site No. 1 (NOVITSKOYE)	43-01-45N 133-17-15E	I	4	Complete
Launch Site No. 2 (SEVERNYY SUCHAN)	43-10-00N 133-20-00E	I	4	Complete
TAURAGE Launch Complex				
Launch Site No. 1 (TAURAGE #3)	55-05-15N 22-19-30E	I	4	Complete
Launch Site No. 2 (TAURAGE #1)	55-10-15N 22-20-45E	I	4	Complete
TAYBOLA Launch Complex				
Hard Launch Site No. 1 (TAYBOLA #1)	68-28-15N 33-15-15E	IV	2	Complete
Hard Launch Site No. 2 (TAYBOLA #2)	68-30-00N 33-23-00E	IV	2	Complete

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LOCATION	COORDINATES	TYPE	LAUNCHERS	ESTIMATED CONSTR. STATUS 2-1-63
TORVA Launch Complex				
Launch Site No. 1 (TORVA #1)	57-56-30N 26-04-30E	I	4	Complete
Launch Site No. 2 (TORVA #2)	57-59-15N 26-05-15E	I	4	Complete
UGOLNYIE KOPI Launch Complex				
Launch Site No. 1 (UGOLNYIE)	64-46-15N 177-58-00E	II	4	Complete
UKMERGE Launch Complex				
Launch Site No. 1 (VEPRIAI)	55-08-00N 24-38-45E	I	4	Complete
Launch Site No. 2 (UKMERGE)	55-11-15N 24-42-30E	I	4	Complete
UMAN Launch Complex				
Launch Site No. 1 (MOLODETSKOYE)	48-53-45N 30-27-45E	I	4	Complete
Launch Site No. 2 (MANKOVKA)	48-57-45N 30-24-00E	I	4	Complete
USOVO Launch Complex				
Launch Site No. 1 (OVRUCH #1)	51-17-45N 28-16-00E	I	4	Complete
Launch Site No. 2 (OVRUCH #2)	51-18-45N 28-10-30E	I	4	Complete
Launch Site No. 3 (LIPNIKI)	51-12-00N 28-26-30E	II	4	Complete
VORU Launch Complex				
Launch Site No. 1 (VORU #1)	57-46-00N 26-47-15E	II	4	Complete
Launch Site No. 2 (VORU #2)	57-49-15N 26-50-30E	II	4	Complete
VSELYUB Launch Complex				
Launch Site No. 1 (VSELYUB #1)	53-46-15N 25-43-00E	I	4	Complete
Launch Site No. 2 (VSELYUB #2)	53-48-00N 25-46-45E	I	4	Complete

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LOCATION

YELSK Launch Complex
 Launch Site No. 1 (YELSK #1)
 Launch Site No. 2 (YELSK #2)

ZAGARE Launch Complex
 Launch Site No. 1 (ZAGARE #1)
 Launch Site No. 2 (ZAGARE #2)
 Hard Launch Site (LIELELEJA)

ZHMERINKA Launch Complex
 Launch Site No. 1 (GNIVAN)
 Launch Site No. 2 (ZHMERINKA)
 Hard Launch Site (VINNITSA)

ZNAMENSK Launch Complex
 Launch Site No. 1 (ZNAMENSK #1)
 Launch Site No. 2 (ZNAMENSK #2)

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COORDINATES		TYPE		NO. OF PADS LAUNCHERS		ESTIMATED CONSTR. STATUS 2-1-63			
51-42-00N	29-12-30E	I		4		Complete			
51-47-00N	29-18-00E	I		4		Complete			
56-23-15N	23-19-30E	I		4		Complete			
56-29-00N	23-21-30E	I		4		Complete			
56-24-00N	23-36-45E	IV		2		Late			
49-09-15N	28-12-15E	II		4		Complete			
59-10-30N	28-04-45E	II		4		Complete			
49-17-30N	28-20-15E	IV		2		Late			
54-33-00N	21-11-15E	I		4		Complete			
54-35-30N	21-08-45E	I		4		Complete			

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TABLE 4ALPHABETICAL LISTING OF LOCATIONS CONSIDERED IN DETAIL

<u>PLACE NAME</u>	<u>EVALUATION</u>	
	<u>ICBM</u>	<u>MRBM/IRBM</u>
AKHTYRKA	Negative	Confirmed
AKMOLINSK	Negative	Negative
ALMA ATA	Negative	Negative
ALSUNGA (See KULDIGA Area)		
ALUKSNE	Negative	Confirmed
ALYKEL	Negative	Negative
ANADYR (See UGOL'NYE KOPI)		
ANASTASYEVKA	Negative	Confirmed
ARAL'SK	Negative	Negative
ARKHANGEL'SK	Negative	Negative
ASANOVSHCHINA (See OSTROV)		
AY PETRI	Negative	Negative
BALAKLAVA ¹	Negative	Negative
BALTA	Negative	Confirmed
BARANO-ORENBURGSKOYE	Negative	Confirmed
BAUTINO ²	Negative	Negative
BELAYA TSEKOV'	Negative	Negative
BELOKOROVICHI	Negative	Confirmed
BERDICHEV (See GODYKHA)		
BEREGOVO (See MUKACHEVO)		
BERESTECHKO (See BRODY)		
BEREZOVKA (SARATOV-ENGELS Area)	Negative	Negative
BEREZOVKA (See DYATLOVO)		
BERINGOVSKIY	Negative	Negative
BOLEKHOV (See DOLINA)		
BORKHOV (See GOMEL)		
BORKOVICHI (See DISNA)	Negative	Confirmed
BORSHCHEV (See SKALA PODOL'SKAYA)		
BREST	Negative	Confirmed
BRODY	Negative	Confirmed
BULZHINO	Negative	Undetermined
BYTEN (See SLONIM)		
CHAADAYEVKA	Undetermined	Undetermined
CHAPAYEVKA	Negative	Negative
CHAPAYEVSK	Negative	Negative

¹/ Confirmed cruise missile facility.²/ ASM Test Range.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
CHERKAR	Negative	Confirmed R & D
CHEREPOVETS	Negative	Negative
CHITA (See DROVYANAYA)		
CHKALOV (See ORENBURG)		
DAUGAVPILS	Negative	Negative
DELYATIN	Negative	Negative
DERAZHNYA	Negative	Confirmed
DISNA	Negative	Confirmed
DOBROVODY (See UMAN)		
DOLINA	Negative	Confirmed
DOLON*	Negative	Negative
DONOK	Negative	Negative
DROGOBYCH	Negative	Confirmed
DROVYANAYA	Confirmed	Negative
DUBROVO	Negative	Undetermined
DUNAYEVTSY	Negative	Confirmed
DUNDAGA (See KULDIGA Area)		
DURBE (See PAPLAKA)		
DYATLOVO	Negative	Confirmed
ENGEL'S (See SARATOV/ENGELS Area)		
FEODOSIYA ¹	Negative	Negative
FRUNZE	Negative	Negative
GLADKAYA	Confirmed	Negative
GLAZOV	Negative	Negative
GNIVAN (See ZHMERINKA)		
GODYKHA	Negative	Confirmed
GOMEL	Negative	Confirmed
GORODOK (L'VOV Area)	Negative	Undetermined
GRANOV	Negative	Confirmed
GRESK	Negative	Confirmed
GROBINA (See PAPLAKA)		
GRODEKOVO (See BARANO-ORENBURGSKOYE)		
GURLEVO (See MOLOSKOVITSY)		
GUSEV	Negative	Confirmed
GVARDEYSK	Negative	Confirmed
HIUMAA ISLAND	Negative	Negative
IECAVA (See JELGAVA)		
IRKUTSK	Negative	Negative
ITATKA	Confirmed	Negative
IUL'TIN	Negative	Negative
IVANOVO (See PINSK)		

1/ Possible cruise missile facility.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
JELGAVA	Negative	Confirmed
JONAVA	Negative	Confirmed
KAMENETS PODOL'SKIY (See DUNAYEVTSY)		
KAMENNY MOST (See PEROVOMAYSK)		
KAMYSHIN	Negative	Negative
KANDAGACH	Doubtful	Doubtful
KANDALAKSHA	Negative	Doubtful
KAPUSTIN YAR	Negative	Confirmed R & D
KARABABAU (See SARY OZEK)		
KARANGIT ¹	Negative	Negative
KARKARALINSK	Negative	Negative
KARMELOVA (See JONAVA)		
KEDAINAI	Negative	Negative
KHAAPSALU (See RISTI)		
KHABAROVSK (See ANASTASYEVKA)		
KHASHURI	Negative	Negative
KHMELNITSKIY (See DERAZHNYA)		
KHVALINSK	Negative	Negative
KHYROV	Negative	Undetermined
KIEV	Negative	Negative
KILDIN ISLAND ²	Negative	Negative
KINESHMA	Negative	Negative
KIRENSK	Doubtful	Negative
KIVERTSY	Negative	Confirmed
KLAIPEDA	Negative	Doubtful
KLESOV (See SARNY)		
KOLGOMPYA	Negative	Negative
KONKOVICH (See PETRIKOV)		
KOROSTEN	Negative	Confirmed
KOSE (See TALLINN)		
KOSTROMA	Confirmed	Negative
KOZELSK	Confirmed	Negative
KOZHANOVICH	Negative	Confirmed
KOZYANY (See POSTAVY)		
KRASKINO	Negative	Confirmed
KRASNOARMYTSKOYE (See SARATOV/ENGELS Area)		
KRASNOYARSK (See GLADKAYA)		
KRASNOZNAIENSK (See RAGNIT)		

¹/ Possible cruise missile facility.²/ Confirmed cruise missile facility.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
KREMOVO	Negative	Negative
KRISTANOPOL (See SOKAL)		
KROLEVETS	Negative	Confirmed
KRUPA (See RUZHANY)		
KULDIGA AREA	Negative	Negative
KUNGUR (See PERM)		
KURDZHIPS KAYA (See MAYKOP)		
KURGANCHA	Negative	Confirmed
KURITICHI (See PETRIKOV)		
KURMENI (See MARCIANA/MADONA)		
KYSHTYM	Negative	Negative
LEBEDIN	Negative	Confirmed
LEJASCIEMS (See ALUKSNE)		
LIDA	Negative	Confirmed
LIELEJA (See ZAGARE)		
LIPNIKI (See USOVO)	Negative	Confirmed
LUTSK	Negative	Confirmed
L'VOV	Negative	Negative
LYALICHI (See KREMOVO)		
MAKAT	Negative	Confirmed R & D
MALAYA SAZANKA	Negative	Negative
MANKOVKA (See UMAN)		
MARCIANA/MADONA AREA	Negative	Undetermined
MARINA GORKA	Negative	Confirmed
MAYKOP	Negative	Confirmed
MEDENITSA (See DROGOBYCH)		
MEDVED	Negative	Negative
MOLODETSKOYE (See UMAN)		
MOLOSKOVITSY	Negative	Confirmed
MONTYGINO	Negative	Negative
MOTOL (See PINSK)		
MOZHAYSK	Negative	Negative
MUKACHEVO	Negative	Confirmed
MURMANSK	Negative	Doubtful
NADVORNAYA	Negative	Confirmed
NENOKSA ¹	Negative	Negative

1/ Possible cruise missile facility.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
NIGRANDE	Negative	Confirmed
NIZHNYAYA SALDA (See VERKHNYAYA SALDA)		
NIZHNYAYA TURA (See VERKHNYAYA SALDA)		
NORIL'SK	Negative	Negative
NOVAYA MEZINOVKA	Negative	Negative
NOVITSKOYE (See SUCHAN)		
NOVOLITOVSK (See SUCHAN)		
NOVOSIBIRSK	Confirmed	Negative
NOVOSYSOYEVKA	Negative	Confirmed
NOVOVES (See NADVORNAYA)		
NYANDOMA	Undetermined	Undetermined
OBOZERSKAYA	Negative	Negative
OLEN'YA AREA	Negative	Undetermined
OLEVSK (See BELOKOROVICHI)		
OL'GOPOL (See BALTA)		
OMSK	Confirmed	Negative
ORENBURG	Negative	Negative
OSTROG	Negative	Confirmed
OSTROV	Negative	Confirmed
OTAR	Negative	Negative
OTYNIA (See NADVORNAYA)		
OVRUCH (See USOVO)		
PAPLAKA	Negative	Confirmed
PARYSHCHE (See NADVORNAYA)		
PENZA (See CHADAYEVKA)		
PEHM	Confirmed	Negative
PERVOMAI'K	Negative	Confirmed
PETRIKOV	Negative	Confirmed
PIVKA	Negative	Negative
PIVKA (See MULDIGA Area)		
PIVKA	Negative	Confirmed
PIVKA	Confirmed	Negative
PIVKA	Negative	Negative
PIVKA	Negative	Undetermined
PIVKA	Negative	Confirmed
PIVKA	Negative	Negative
PIVKA	Negative	Negative

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
POSTAVY	Negative	Confirmed
PROKHORY (See SPASSK DAL'NIY)		
PROVIDENTYA	Negative	Doubtful
PRUZHANY	Negative	Confirmed
RAGNIT	Negative	Confirmed
RAKVERE	Negative	Confirmed
RECHITSA (See DUBROVO)		
REDKINO (See OSTROV)		
RISTI	Negative	Confirmed
ROZHDESTVENKA	Negative	Confirmed
RUDNYA ZLOTINSKAYA (See BELOKOROVICHI)		
RUSKI (See ALUKSNE)		
RUZHANY	Negative	Confirmed
SAAREMAA ISLAND	Negative	Negative
SALANTAI (See SATEIKIAI)		
SALEKHARD	Negative	Negative
SANLAND PENINSULA	Negative	Negative
SARATOV-ENGELS AREA	Negative	Negative
SARNY	Negative	Doubtful
SAROVA	Negative	Negative
SARY OZEK	Negative	Confirmed
SARY SHAGAN ¹	Negative	Negative
SATEIKIAI	Negative	Confirmed
SEMENOVKA (See PERVOMAYSK)		
SEMIPALATINSK	Negative	Negative
SERGACH	Negative	Negative
SEVASTOPOL'	Negative	Negative
SEVERNYI SUCHAN (See SUCHAN)		
SHADRINSK	Confirmed	Negative
SHAGAN (See DOLON)		
SHEPETOVKA (See OSTROG)		
SHESTOVO	Negative	Possible
SHEVELEVO (See OSTROV)		
SHIKHANY	Negative	Negative
SHIRVANSKAYA (See MAYKOP)		
SHISHCHITSY (See GRESK)		
SIMUNA (See RAKVERE)		

¹/ ABM R&D facility.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
SKALA PODOL'SKAYA	Negative	Confirmed
SKRUNDA (See NIGRANDE)		
SLAVSK (See SOVETSK)		
SLAVYANKA (See KRASKINO)		
SLITERE (See KULDIGA Area)		
SLONIM	Negative	Confirmed
SMORGON	Negative	Confirmed
SOFIYA ALEKSEYEVKA (See BARANO-ORENBURGSKOYE)		
SOKAL	Negative	Confirmed
SOLY (See SMORGON)		
SOVETSK	Negative	Confirmed
SOVETSKAYA GAVAN AREA ¹	Negative	Negative
SPASSK-DAL'NIY	Negative	Negative
STALINABAD	Negative	Negative
STRYI (See DROGOBYCH)		
SUCHAN	Negative	Confirmed
SUDAK	Negative	Negative
SUROVATIKHA	Negative	Negative
SVALYAVA AREA	Negative	Possible
SVERDLOVSK	Negative	Negative
SVOBODNIY	Confirmed	Negative
TALLINN	Negative	Negative
TAMBOV	Negative	Negative
TASHARA	Negative	Negative
TASHKENT	Negative	Negative
TAURAGE	Negative	Confirmed
TAYBOLA	Negative	Confirmed
TEYKOVO	Confirmed	Negative
TIKSI	Negative	Negative
TOMSK (See ITATKA)		
TOROPETS	Negative	Negative
TORVA	Negative	Confirmed
TROSTYANETS (See KIVERITSY)		
TUAPSE	Negative	Negative
TUMANS	Negative	Negative
TYM (See KUSCANGRA)		
TYUMEN	Confirmed	Negative

1/ MRBM firings confirmed - no fixed sites in photography.

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PLACE NAME	EVALUATION	
	ICBM	MRBM/IRBM
TYURA TAM	Confirmed	Negative
UFA	Doubtful	Negative
UGOL'NYYE KOPI ¹	Negative	Confirmed
UKMERGE	Negative	Confirmed
UKRAINA	Negative	Negative
ULAN UDE	Negative	Negative
UMAN ²	Negative	Confirmed
URECH'YE	Negative	Confirmed
USOVO	Negative	Confirmed
USSURISK VOZDVIZHENKA	Negative	Negative
UST'-UKHTA	Negative	Negative
UZHGOROD	Negative	Undetermined
VAIKE MAARJA (See RAKVERE)		
VALDAY	Negative	Negative
VERKHNYAYA SALDA	Confirmed	Negative
VEPRIAI (See UKMERGE)		
VIESVILLE (See RAGNIT)		
VINNIKI (See L'VOV)		
VINNITSA (See ZHMERINKA)		
VLADIMAR VOLYNSKIY (See LUTSK)		
VLADIVOSTOK	Negative	Negative
VOLKOVYSK	Negative	Negative
VOLODARSK	Undetermined	Undetermined
VOLOGDA/SOKOL	Negative	Negative
VOLOVETS (See SVALYAVA)		
VORKUTA	Negative	Negative
VORU	Negative	Confirmed
VSELYUB	Negative	Confirmed
YAKUTSK	Negative	Negative
YASVA (See VERKHNYAYA SALDA)		
YATSUKI (See DYATLOVO)		
YEDROVO	Confirmed	Negative
YEKATERINOVKA (See SUCHAN)		
YELSK	Negative	Confirmed
YEVPA TORIYA ²	Negative	Negative

1/ Referred to as Ugolnyy in some documents. Since Beringovskiy was formerly known as Ugolnyy, the DWG has selected Ugolnyy Kopi as the correct place name for this MRBM/IRBM site.

2/ Space tracking facility.

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PLACE NAME

EVALUATION
ICBM MRBM/IRBM

YOSHKAR-OLA	Confirmed	Negative
YURYA	Confirmed	Negative
YURYUZAN	Negative	Negative
ZAGARE	Negative	Confirmed
ZBLYANY (See DYATLOVO)		
ZELKI (See DISNA)		
ZEMAICU KALVARIJA (See SATCHIKAL)		
ZHERIBKOVO (See BALPA)		
ZHITOMIR (See BODYKHA)		
ZHMERJINKA	Negative	Confirmed
ZNAMENSK	Negative	Confirmed

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